USDA

FORM C–2
CORN FINAL PRE-HARVEST LAB DETERMINATIONS
2011

NATIONAL AGRICULTURAL STATISTICS SERVICE

YEAR, CROP, FORM, MMDD (1 – 7)	
1 4 5 ___ ___ ___ ___	

Date Sample Received in Lab: _____

EAR WEIGHT (Both Combined)

1. Weight of ears in sealed bags . . . . . **Grams to Tenths** 501 . ___
2. Weight of same number of new bags and rubber bands . . . . . **Grams to Tenths** 502 . ___

GRAIN WEIGHT and MOISTURE DETERMINATIONS

Shell grain from all ears. If ears are too wet to shell easily, dry them for a short period at no more than 70 degrees C before shelling.

3. Weight of all grain shelled from ears at time of moisture test . . . . . **Grams to Tenths** 507 . ___
4. Moisture content of shelled grain . . . . . **Percent** (One Decimal) 508 . ___
5. Was the grain used for the moisture determination oven dried and/or wetted to enable processing of the sample?

☐ **YES** – *Enter code from below.* ☐ **NO** – *Enter code 4.*. 510

1 = Sample was oven dried only
2 = Sample was wetted only
3 = Sample was oven dried AND wetted

Lab Technician _____ Date Analyzed _____

MM DD

FORM C-2: CORN

If the sample weight is too small for moisture test, sufficient grains of known moisture content (*use same class and stage of maturity*) *will be added to the sample so that a moisture test can be made. The moisture content of the sample can then be derived using the following formula*:

$$E = \frac{(A + B)\,D - (B \times C)}{A}$$

Where	**A = Weight of small corn sample**	. ___	**Grams**
	B = Weight of additional grain required for moisture test	. ___	**Grams**
	C = Moisture percent of B	. ___	**Percent**
	D = Moisture percent of A + B combined	. ___	**Percent**
	E = Result : Moisture percent of small corn sample (*enter in item 4*)	. ___	**Percent**